

CLAIMS

THE INVENTION CLAIMED IS:

1. A multiple tool attachment system for demolition equipment comprising:
an adapter for coupling the system to existing demolition equipment;
a body coupled to the adapter;
a pair of jaws coupled to the body, at least one of the jaws being pivotable, and
each jaw having a tool carrier extending to the end of each jaw; and
a plurality of tool attachments selectively attachable to each tool carrier for
forming distinct tool units.
2. The multiple tool attachment system according to claim 1, wherein each
tool carrier includes a mounting surface adapted to receive one of a plurality of tool
attachments that is secured to the mounting surface.
3. The multiple tool attachment system according to claim 2, wherein each
tool attachment may be secured to the mounting surface of the tool carrier through at least
one pair of opposing attachment lugs which engage and are secured within a matching
opposing pair of attachment lug retention slots.
4. The multiple tool attachment system according to claim 3, wherein the pair
of opposing attachment lug retention slots are on the tool attachment and the attachment lugs
are on the tool carrier.
5. The multiple tool attachment system according to claim 3, wherein the pair
of opposing attachment lug retention slots are on the tool carrier and the attachment lugs are
on the tool attachment.

6. The multiple tool attachment system according to claim 5, wherein the at least one pair of opposing attachment lug retention slots are separated by a central portion and a fastener hole extends through the central portion to connect each pair of opposing attachment lug retention slots; and 9, 10, 11, 12, 12A, 12B, 12C wherein each pair of opposing attachment lugs has a fastener hole extending therethrough such that when each pair of opposing attachment lugs is engaged within the respective pair of attachment lug retention slots, a fastener may extend through the fastener hole to secure the attachment lugs within the attachment lug retention slots thereby securing the tool attachment to the tool carrier.

7. The multiple tool attachment system according to claim 6, further including a stabilizing groove within the mounting surface between pairs of attachment lug retention slots to receive an engaging projection from the tool attachment.

8. The multiple tool attachment system according to claim 1, wherein one of the plurality of tool attachments is a cracker attachment.

9. The multiple tool attachment system according to claim 8, wherein the cracker attachment includes at least one double rake tooth.

10. The multiple tool attachment system according to claim 9, wherein the cracker attachment includes at least one single rake tooth.

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11. The multiple tool attachment system according to claim 8, wherein the cracker attachment includes at least one single rake tooth.

12. The multiple tool attachment system according to claim 1, wherein one of the plurality of tool attachments is a pulverizing attachment.

13. The multiple tool attachment system according to claim 12, wherein the pulverizing attachment includes a pair of inserts, each insert including a plurality of teeth.

14. The multiple tool attachment system according to claim 1, wherein one of the plurality of tool attachments is a wood shear attachment.

15. The multiple tool attachment system according to claim 14, wherein the wood shear attachment includes a blade insert and an anvil insert, the blade insert cooperates with the anvil insert.

16. The multiple tool attachment system according to claim 15, wherein:
the blade insert includes a blade and a piercing tip,
the anvil insert includes a pair of spaced apart tines, and
the pair of spaced apart tines are configured to receive the blade therebetween.

17. The multiple tool attachment system according to claim 15, wherein:
the tool carrier includes a recess, and
the blade insert includes a projection configured to engage the recess.

18. The multiple tool attachment system according to claim 1, wherein one of the plurality of tool attachments is an iron/rail cracker attachment.

19. The multiple tool attachment system according to claim 18, wherein the iron/rail cracker attachment includes a single cracker insert.

20. The multiple tool attachment system according to claim 1, wherein the iron/rail cracker attachment includes a double cracker insert.

21. The multiple tool attachment system according to claim 1, wherein one of the plurality of tool attachments is a grapple attachment.

22. The multiple tool attachment system according to claim 21, wherein the grapple attachment includes a pair of grapple inserts.

23. The multiple tool attachment system according to claim 22, wherein the pair of grapple inserts each include a plurality of tines.

24. The multiple tool attachment system according to claim 23, wherein the plurality of tines of a first grapple insert are offset from the plurality of tines of a second grapple insert.

25. The multiple tool attachment system according to claim 23, wherein the plurality of tines of a first grapple insert are aligned with the plurality of tines of a second grapple insert.

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26. The multiple tool attachment system according to claim 22, wherein each of the pair of grapple inserts includes a central cavity.

27. The multiple tool attachment system according to claim 26, wherein each of the pair of grapple inserts further includes:

- a retaining bar;
- a retaining pin including a slot configured to receive the retaining bar; and
- an opening on an end of the insert configured to receive the retaining bar.

28. The multiple tool attachment system according to claim 1, wherein the plurality of fasteners includes a plurality of bolts and a plurality of nuts engageable with the bolts.

29. The multiple tool attachment system according to claim 1, further including a pair of wear plates adjacent to each of the pair of jaws and distal the body.

30. The multiple tool attachment system according to claim 1, wherein each jaw includes at least one cutting insert.

31. The multiple tool attachment system according to claim 30, further including at least one wear plate adjacent to at least one cutting insert and distal the body.

32. The multiple tool attachment system according to claim 30, wherein at least one jaw includes two cutting inserts.

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33. The multiple tool attachment system according to claim 32, wherein the two cutting inserts form an apex.

34. A multiple tool attachment system for demolition equipment comprising:
a pair of jaws configured to couple to the demolition equipment, at least one of the jaws being pivotable;

a plurality of tool attachments selectively attachable to each of the pair of jaws for forming distinct tool units; and

a tool carrier on each of the jaws and extending to the end of each jaw, wherein each tool carrier includes a mounting surface adapted to receive one of a plurality of tool attachments that is secured to the mounting surface through at least one pair of opposing attachment lugs which engage and are secured within a matching opposing pair of attachment lug retention slots.

35. The multiple tool attachment system according to claim 34, wherein the plurality of tool attachments includes one or more of a cracker attachment, a pulverizing attachment, a wood shear attachment, an iron/rail cracker attachment, and a grapple attachment.

36. A multiple tool attachment system for demolition equipment comprising:
a pair of jaws configured to couple to the demolition equipment, at least one of the jaws being pivotable, and each jaw having a tool carrier extending to the end of each jaw;
a plurality of tool attachments selectively attachable to each tool carrier of the pair of jaws for forming distinct tool units; and

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a plurality of fasteners;

wherein each tool carrier includes a mounting surface adapted to receive one of the plurality of tool attachments, wherein the tool attachment is secured to the mounting surface through at least one pair of opposing attachment lugs which engage and are secured within a matching opposing pair of attachment lug retention slots;

wherein the at least one pair of opposing attachment lug retention slots are separated by a central portion and a fastener hole extends through the central portion to connect each pair of opposing attachment lug retention slots; and

wherein each pair of opposing attachment lugs has a fastener hole extending therethrough such that when each pair of opposing attachment lugs is engaged within the respective pair of attachment lug retention slots, a fastener may extend through the fastener hole to secure the attachment lugs within the attachment lug retention slots thereby securing the tool attachment to the tool carrier.

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